

RECLAMATION

Managing Water in the West

MP CONSTRUCTION OFFICE

Willows, California

Construction Progress Report – L29



Hydropower Facility Modifications-Stage 1
Penstock bypass chute - 60 KVA Power lines

June 2012

"Doing It Right from the Start"



U.S. Department of the Interior
Bureau of Reclamation
Mid-Pacific Region

CONSTRUCTION PROGRESS REPORT (L-29)
MP CONSTRUCTION OFFICE
MID-PACIFIC REGION
June 2012

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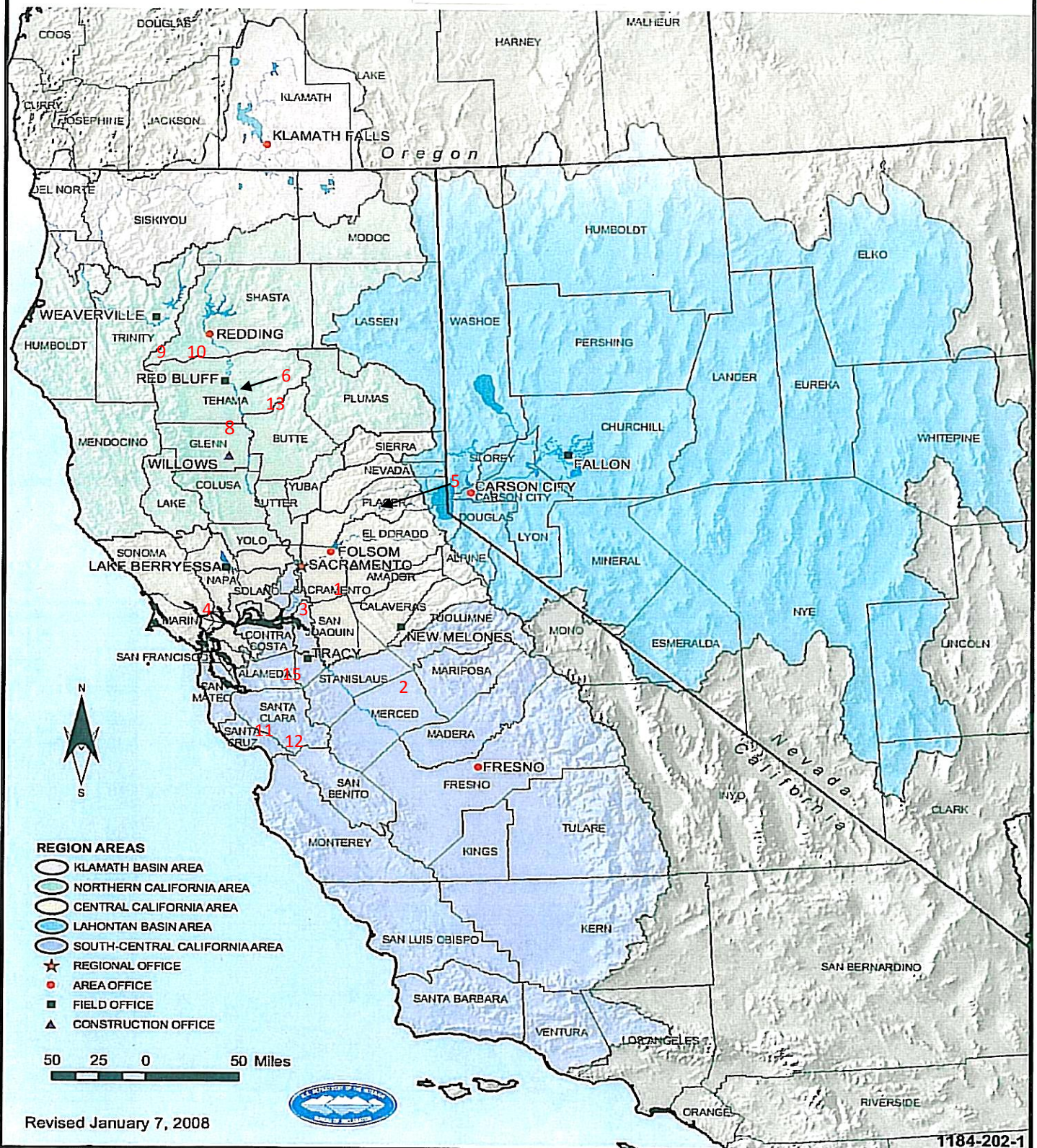
Battle Creek Lab Reports

MIAD Lab Reports

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Mid-Pacific Region

RECLAMATION
Managing Water in the West



STAFFING – MID PACIFIC CONSTRUCTION OFFICE

The Mid Pacific Construction Office had 82 construction and administrative employees at the close of this month as follows:

Construction Engineer's Office	2
Preaward & Project Management Group	3
Administrative Management	11
Division of Field Engineering	30
Division of Office Engineering	13
Materials Lab Branch	11
Detail/Contract Employees	8

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

MEANING

ARRA	American Recovery and Reinvestment Act
CCAO	Central California Area Office
CVP	Central Valley Project
LBAO	Lahontan Basin Area Office
MP	Mid Pacific Regional Office
MPCO	Mid-Pacific Construction Office
NCAO	Northern California Area Office
SCCAO	South Central California Area Office
TO	Tracy Office

CCAO

Contract No. R10PC20R15

Specification No. 20-C0649A

Fixed Wheel Gate Rehabilitation–Folsom Dam River Division–Central Valley Project,
California

Abide International, Inc., Sonoma, CA

Work Performed:	June	0%
	Time Elapsed	64.2%
	Work Completed	88.8%

Contractor Earnings:	June	\$0
	Previous	\$2,529,703.18
	Total to Date	\$2,529,703.18

MPCO Noncontract Costs:	1st Quarter Expenditures:	\$60,408.00
	2nd Quarter Expenditures:	\$81,722.00
	3rd Quarter Expenditures:	\$20,432.00
	4th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$162,562.00
	FY12 Budgeted:	\$195,015.00
	Amount Remaining:	\$32,453.00
	Percent Remaining:	16.64%

Area Office Project Management

Project Manager: Jesse Castro, CC-607

Office Engineering

Contract Administrator: Larry Bowman, MPCO-240

No invoices were received this period.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Bill Linder, MPCO-312

Number of Contract Employees: 0

Work performed:

Contractor was not present at the jobsite.

Contract No. R10PC20019

Specification No. 20-C0689

Folsom Power Plant Generators U1, U2, and U3 Rewind and Excitation System Replacement–
American River Division–Folsom Unit–Central Valley Project, California

Andritz Hydro Corp, Charlotte, NC

Work Performed:	June	0%
	Time Elapsed	51.3%
	Work Completed	52.9%
Contractor Earnings:	June	\$0
	Previous	\$10,281,232.94
	Total to Date	\$10,281,232.94
MPCO Noncontract Costs:	1st Quarter Expenditures:	\$26,495.00
	2nd Quarter Expenditures:	\$63,358.00
	3rd Quarter Expenditures:	\$21,515.00
	4th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$111,368.0
	FY 12 Budgeted:	\$206,325.00
	Amount Remaining:	\$94,957.00
	Percent Remaining:	46.02%

Area Office Project Management

Project Manager: Jesse Castro, CC-607

Office Engineering

Contract Administrator: Madelyn Giles, MPCO-210

No invoices were received this period.

MPCO continued reviewing proposals for Modification 7 which will definitize Modifications 1 and 2. The contractor is putting together a proposal to measure the circularity of the rotors.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Sergio Vivar, MPCO-311; Sean Frische, MPCO-317

Number of Contract Employees: 0

Work performed:

No work was performed. The contractor demobilized on October 28, 2011, and is scheduled to remobilize in October 2012.

Contract No. R10PC20767

Specification No. 20-C0703

Folsom Power Plant U1, U2, and U3 Replacement Runners–American River Division–Folsom Unit–Central Valley Project, California

Voith Siemens Hydro Power Generation, Inc., York, PA

Work Performed:	June	0%
	Time Elapsed	70.3%
	Work Completed	72.1%
Contractor Earnings:	June	\$0
	Previous	\$5,283,450.21
	Total to Date	\$5,283,450.21

Note: Costs are included with Contract No. R10PC20019, Folsom Power Plant Generators U1, U2, and U3 Rewind and Excitation System Replacement.

Area Office Project Management

Project Manager: Jesse Castro, CC-607

Office Engineering

Contract Administrator: Madelyn Giles, MPCO-210

Invoice 23 was received this period. It was not for work done this period but for work done through May 31, 2012.

Field Engineering

Construction Manager: N/A supply contract

Construction Representative: N/A supply contract

Number of Contract Employees: N/A supply contract

Work performed: N/A supply contract

Contract No. R10PC20128

Specification No. 20-C0706

New Melones Power Plant Excitation System Replacement–East Side Division–New Melones

Unit–Central Valley Project, California

Koontz Electric Company, Inc., Morrilton, AR

Work Performed:	June	0.6%
	Time Elapsed	81.8%
	Work Completed	99.1%

Contractor Earnings:	June	\$14,056.00
	Previous	\$2,372,456.50
	Total to Date	\$2,386,512.50

MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$6,734.00
	2 nd Quarter Expenditures:	\$38,417.00
	3 rd Quarter Expenditures:	\$65,201.00
	4 th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$110,352.00
	FY 12 Budgeted:	\$144,750.00
	Amount Remaining:	\$34,398.00
	Percent Remaining:	23.76%

Area Office Project Management

Project Manager: Terry Brown, CC-606a

Office Engineering

Contract Administrator: Larry Bowman, MPCO-240

Invoice 10 was received and forwarded to the Denver finance office for processing.

Submittals, including as-built drawings, remain to be provided by the contractor.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Dennis Schuenemann, MPCO-338

Number of Contract Employees: 5

Work performed:

The date of substantial completion was May 23, 2012. The contractor demobilized from the site on May 24, 2012.

The contractor performed a few punch list items and conducted exciter training for maintenance staff.

Contract No. R09PC20171
Specification No. 20-C0720
Nimbus Powerplant HVAC System Modification–American River Division–Folsom Unit,
Central Valley Project, California
Perryman Mechanical, Inc., West Sacramento, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	79.9%
Contractor Earnings:	June	\$0
	Previous	\$428,963.09
	Total to Date	\$428,963.09
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$2,401.00
	2 nd Quarter Expenditures:	\$809.00
	3 rd Quarter Expenditures:	\$5,726.00
	4 th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$6,585.00
	FY 12 Budgeted:	\$6,400.00
	Amount Remaining:	-\$185.00
	Percent Remaining:	0.00%

Area Office Project Management
 Brian Zewe, CC-607A

Office Engineering
 Contract Administrator: Ryan Hennigan, MPCO-211

No invoices were received this period.

Field Engineering
 Construction Manager: Henry Garcia, MPCO-310
 Construction Representative: Todd Dooley, MPCO-314

Number of Contract Employees: 0

Work performed:
 All site work, except for punch list items, has been completed.

Contract No. R10PC20R49

Specification No. 20-C0733

Lake Berryessa ADA Accessibility Improvements–ARRA Project No. 49.000–Lake Berryessa

Recreational Area, Solano Project, California CSRW (DBA)

CSRW, Inc. (DBA) Allied Construction Services, Livermore, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	96.3%
Contractor Earnings:	June	\$0
	Previous	\$1,009,249.48
	Total to Date	\$1,009,249.48
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$3,233.00
	2 nd Quarter Expenditures:	\$4,522.00
	3 rd Quarter Expenditures:	\$12,697.00
	4 th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$20,452.00
	FY 12 Budgeted:	\$19,500.00
	Amount Remaining:	-\$952.00
	Percent Remaining:	0.00%

Area Office Project Management

Project Manager: Nicole Johnson, CC-605c

Office Engineering

Contract Administrator: Amber Pierce, MPCO-205

No invoices were received this period.

Modification 5 and Final Modification 6 were executed this period

The remaining work the contractor to perform is to submit asbuilt drawings.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Henry Garcia, MPCO-310

Number of Contract Employees: 0

Work performed:

Site work was completed in September 2011. Contractor needs to submit As-BUILTS.

Contract No. R10PC20R37

Specification No. 20-C0738

New Melones ADA Accessibility–ARRA Project No. 50.000–New Melones Recreation Area,
East Side Division–Central Valley Project, California

J.I. Garcia Construction, Inc., Fresno, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	96.5%
Contractor Earnings:	June	\$0
	Previous	\$1,333,872.80
	Total to Date	\$1,333,872.80
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$13,703.00
	2 nd Quarter Expenditures:	\$14,164.00
	3 rd Quarter Expenditures:	\$28,161.00
	4 th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$56,028.00
	FY 12 Budgeted:	\$46,923.00
	Amount Remaining:	\$-9,105.00
	Percent Remaining:	00.00%

Area Office Project Management

Project Manager: Nicole Johnson, CC-605c

Office Engineering

Contract Administrator: Amber Pierce, MPCO-205

No invoices were received this period.

The contractor has to submit as-built drawings.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Henry Garcia, MPCO-310

Number of Contract Employees: 0

Work performed:

The contractor worked on punch list items.



New Melones ADA Accessibility
Working on Asphalt Overlay at Chamise Campground

Contract No. R10PC20114

Specification No. 20-C0754

Folsom Dam–Safety of Dams Modification–MIAD Key-Block–American River Division,

Folsom Unit, Central Valley Project, California.

Shimmick Construction Co., Inc., Sacramento, CA

Work Performed:	June	2.5%
	Time Elapsed	69.0%
	Work Completed	79.9%

Contractor Earnings:	June	\$928,346.89
	Previous	\$35,576,051.37
	Total to Date	\$36,504,398.26

MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$429,330.00
	2 nd Quarter Expenditures:	\$388,350.00
	3 rd Quarter Expenditures:	\$351,168.00
	4 th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$1,168,848.00
	FY 12 Budgeted:	\$1,654,440.00
	Amount Remaining:	\$485,592.00
	Percent Remaining:	29.35%

Area Office Project Management

Project Manager: Larry Hobbs, CC-106

Office Engineering

Contract Administrator: Larry Bowman, MPCO-240

Invoice 23 was received and forwarded to the Denver finance office this period.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Howard Diedrich, MPCO-316; Sean Frische, MPCO-317

Number of Contract Employees: 46

Worked Performed:

CELL E:

Shimmick Construction Co., Inc. installed level 5 bracing, completed excavation from level 4 to final foundation, performed foundation preparation for geologic mapping followed by final foundation cleanup, and began removal of level 5 bracing. USBR geologists performed foundation mapping prior to final cleanup and placement of lean concrete. Subcontractor CEMEX placed the first lift of lean concrete (approximately 1,700 CY).

CELL A:

Shimmick Construction Co., Inc. completed excavation from level 4 to final foundation, installed level bracing level 5, and performed foundation preparation for geologic mapping.

MODIFICATION 005:

No work was performed on this modification.

MODIFICATION 007:

Shimmick Construction Co., Inc. continued operating and adjusting the supplemental dewatering systems for Cells A and E, while consultant HSI continued monitoring and recording data from the supplemental dewatering system for the two cells.

Consultant HSI completed pump and recovery tests on the supplemental dewatering wells in Cell F.

Shimmick Construction Co., Inc. and subcontractor MDCI completed supplemental dewatering well drilling and flushing in Cell C.

Shimmick Construction Co., Inc. began installing the dewatering header pipe for cell F.

Shimmick Construction Co., Inc. supplier, Active Treatment Systems, Inc. (ATS), replaced two Bay-Oxide filters and installed a sand media filter for the arsenic filtration equipment.

MISCELLANEOUS:

Drilling spoils and excavated materials were hauled to the designated stockpile area along the toe of the CSAMIAD stockpile by owner-operator dump trucks and Shimmick Construction Co., Inc. haul trucks.

Shimmick Construction Co., Inc. completed removal of the secant pile guide wall for cell F, and began removal at cell C.

Subcontractor MDCI completed demobilization from the site.

Contract No. R10PC20R57

Specification No. 20-C0760

Folsom Dam Civil Maintenance Building–American River Division–Folsom Unit, Central Valley Project, California

Building Solutions, Inc., Reno, NV

Work Performed:	June	7.7%
	Time Elapsed	98.0%
	Work Completed	87.40%
Contractor Earnings:	June	\$522,650.80
	Previous	\$5,380,157.34
	Total to Date	\$5,902,808.14
MPCO Noncontract Costs:	1st Quarter Expenditures:	\$155,201.00
	2nd Quarter Expenditures:	\$90,027.00
	3rd Quarter Expenditures:	\$80,859.00
	4th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$326,087.00
	FY 12 Budgeted:	\$363,200.00
	Amount Remaining:	\$37,113.00
	Percent Remaining:	10.22%

Area Office Project Management

Project Manager: Ed Roza, CC-608

Office Engineering

Contract Administrator: Laurie Larson, MPCO-222

Invoice 20 was received and forwarded to the Denver finance office for processing.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Michael E. Manlick, MPCO-313

Number of Contract Employees: 35

Work performed:

Takahara delivered and planted eleven flats of *Delosperma Cooperi* (Purple Ice Plant) to replace plants that had died or been pulled-up by deer. They also installed orange fencing attached to wood poles around the perimeter of the plantings.

Solo Steel Erectors completed installing gutters and trim. They also installed the roof mounted fan curbs across roof ridges.

Lancaster Burns installed the ceiling joists in the Paint Shop office and Paint Storage room of Quad D. They also began framing and installing exterior, weather resistant drywall to close the four openings at the perpendicular intersection of the CIP concrete walls (at the Car Wash) and the building's exterior wall panels.

Lancaster Burns completed hanging drywall on walls and ceilings in the Paint Storage room No. 130 and Unisex Toilet room No. 136. Tapers and Finishers continued taping, topping and sanding sheetrocked walls in Quads A, B, C and D.

Building Solutions, Inc. removed all debris and buffed floors in Quads A, B, C and D. They applied three coats of Flouorohard floor hardener in accordance with manufacturer's instructions. BSI and one Clearwater Enterprises Co. employee assembled and installed three roof access ladders and platforms. Building Solutions, Inc. also installed several interior and exterior door frames and placed three yards of sidewalk concrete in three locations around the building.

JL Harris Painting sprayed a light blue intermediate coat of Pitt Tech Plus DTM to the six roof damper covers. They also rolled prime and finish coats to walls and ceilings in Quads A, B, C and D.

California Tile completed setting and grouting floor and wall tile in the Men's room, Men's Locker room, Women's Room, Women's locker room and Unisex Toilet room.

California Cabinets installed the Kitchen and Utility room cabinetry in Quad A.

American Sheet Metal Partitions delivered, assembled and secured the lockers, benches etc. in the men's (108) and women's (107) lockers.

Capitol Acoustical, Inc. hung T-bars for acoustical ceiling within quad 'A'.

Iron Mechanical, Inc. installed plumbing features (i.e. toilets, showers, fountains basins etc.) in the women's room No. 111, women's locker room No. 107, men's room No. 112, men's locker room No. 108, the hallway No. 136 and unisex toilet room No. 126.

Iron Mechanical installed the overhead electric heating units in Quads B, C and D. They also installed evaporative cooling unit sheet metal ductwork within Quads B, C, and D. Iron Mechanical installed two reel mounted vehicle exhaust systems in the Garage area of Quad B. They also completed the installation of the prefabricated steel air piping and fittings throughout Quads B, C and D and placed roof top vent hoods and roof top fans on Quads B, C, and D.

Foothill Fire Protection pressure tested fire sprinkler main lines without incident.

Surface Preparation Co., Inc. assembled the media blaster in the sand blaster room # 134.

Rex Moore pulled telecommunication wiring from the Communications room No. 114 in Quad A to many of the communication ports in the main office section of the same Quad. They also installed recessed fluorescent lighting in Quad A and assembled and wired the parking lot light

fixtures to the light poles. Rex Moore also installed rough-in components for the door operators on exterior doors No. 100 and No. 103. Rex Moore completed the conduit and box installation for the A/C compressor disconnects in Quad A and for Evaporative Coolers in Quads B, C and D. They also installed electrical breaker panels in the Electrical/Mechanical room #115 of Quad A and the Electrical/Mechanical room #128 of Quad C. System 3 and Rex Moore pulled and terminated 5 kV cable between electrical vault EM-8H and the new 500KVA transformer.

Contract No. R10PC20197

Specification No. 20-C0768

Control Upgrade and Modernization of the Gantry and Bridge Cranes at the Folsom Dam and Powerplant–American River Division, Folsom Unit, Central Valley Project, California
Crane America Services, Inc., Livermore, CA

Work Performed:	June	7.2%
	Time Elapsed	91.2%
	Work Completed	87.6%
Contractor Earnings:	June	\$137,250.00
	Previous	\$1,524,935.17
	Total to Date	\$1,662,185.17
MPCO Noncontract Costs:	1st Quarter Expenditures:	\$19,742.00
	2nd Quarter Expenditures:	\$65,536.00
	3rd Quarter Expenditures:	\$0.00
	4th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$85,278.00
	FY12 Budgeted:	\$66,073.00
	Amount Remaining:	-\$19,205.00
	Percent Remaining:	-29.07%

Area Office Project Management

Project Manager: Brian Zewe, CC-607A

Office Engineering

Contract Administrator: Madelyn Giles, MPCO-210

Invoice 17 was received and forwarded to the Denver finance office for processing.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Sergio Vivar, MPCO-311

Number of Contract Employees: 9

Work performed:

Wire-up Electrical System:

Crane America installed the wind speed indicator on the bridge crane.

Install Limit Switch on Cable Reel on 140-ton Gantry Crane:

Magnetek programmed the bypass function for the rotary limit switch.

Install Trolley Equipment Enclosure:

AAA Services installed the upstream trolley enclosure onto the bridge crane.

Crane America installed the trolley enclosure ridge caps and the louver screens in the trolley equipment enclosures.

Handrail Installation on 140-ton Gantry Crane:

Crane America completed installation of the handrails on the 25-ton hoist deck.

Installation of Steps on Walkway:

AAA Services set the new steps on the walkway of the 275-ton bridge crane.

Install New Load Cells

Crane America installed the load cell system.

Perform Load Test

Crane America and Water Weights performed the load test on the 275-ton Bridge Crane, verifying the tandem function for both the trolley motors and the synchronous function for the main and auxiliary hoist motors. Crane America will perform the load test on the upstream main hoist in mid July 2012.

Crane America cleaned the 275-ton bridge crane, removing all tools, equipment, materials, and debris.



Control Upgrade and Modernization of the Gantry and Bridge Cranes at the Folsom Dam and Powerplant

The contractor drilling on the Folsom Bridge Crane trolley enclosure for the installation of the joint cap

Contract No. R10PC20859

Specification No. None

Folsom Dam and Powerplant Site Security System – Central Valley Project, California

Trofholz Technologies, Inc., Rocklin, CA

Work Performed:	June	0%
	Time Elapsed	94.0%
	Work Completed	87.1%
Contractor Earnings:	June	\$0
	Previous	\$5,546,053.56
	Total to Date	\$5,546,053.56
MPCO Noncontract Costs:	1st Quarter Expenditures:	\$16,862.00
	2nd Quarter Expenditures:	\$51,372.00
	3rd Quarter Expenditures:	\$45,038.00
	4th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$113,272.00
	FY 12 Budgeted:	\$178,100.00
	Amount Remaining:	\$64,828.00
	Percent Remaining:	36.40%

Area Office Project Management

Project Manager: Bill Vanderwaal, MPCO-122

No invoices were received this period.

Office Engineering

Contract Administrator: Kevin Jacobs, MPCO-214

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Phil Moseby, MPCO-327

Number of Contract Employees: 7

Work Performed:

Radial Gate Structure:

Trofholz Technologies, Inc. continued installation of the Microwave Sensors at the North Fork pipeline.

Administration Building and Back-up Control Center:

Trofholz Technologies, Inc. programmed and tested the access control system and troubleshot the intrusion-detection system.

Dikes 4, 5, and 6:

Trofholz Technologies, Inc. continued the installation of the Wireless Devices on the poles of the dikes.

Pump Plant-Conduit Installation:

Trofholz Technologies, Inc. installed portions of the Microwave system conduits for the fibers, in the Pump Plant.

Modification 3:

New left Wing Dam Fencing:

Trofholz Technologies, Inc worked on installation of sensor cable onto chain-link fence at the Left Wing Dam). Crusader Fence completed installation of the Perimeter Gate to the Folsom Dam roadway.

LBAO

Contract No. R11PC20158

Specification No. 20-C0777

Stampede Powerplant and Switchyard Recoatings–Stampede Dam–Stampede Division–
California

Farr Construction Corporation, Sparks, NV

Work Performed:	June	0%
	Time Elapsed	84.3%
	Work Completed	0%
Contractor Earnings:	June	\$0
	Previous	\$0
	Total to Date	\$0
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$2,114.00
	2 nd Quarter Expenditures:	\$5,114.00
	3 rd Quarter Expenditures:	\$8675.00
	4 th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$15,903.00
	FY 12 Budgeted:	\$25,195.00
	Amount Remaining:	\$9,292.00
	Percent Remaining:	36.88%

Area Office Project Management

Project Manager: Locke Hahne, LO-400

Office Engineering

Contract Administrator: Amber Pierce, MPCO-205

No invoices were received this period.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Mike Rondoni, MPCO-319

Number of Contract Employees: 0

Work performed:

No work was performed. The contractor is scheduled to perform the work in August 2012.

NCAO

Contract No. R10PC20746

Specification No. 20-C0700

Coleman National Fish Hatchery Water Intakes Rehabilitation–Shasta Division–Central Valley
Project, California

Shimmick Construction, Inc., Sacramento, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	97.8%
Contractor Earnings:	June	\$0
	Previous	\$7,915,099.25
	Total to Date	\$7,915,099.25
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$99
	2 nd Quarter Expenditures:	\$7,454.00
	3 rd Quarter Expenditures:	-\$2,974.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$4,579 .00
	FY12 Budgeted:	\$5,859.00
	Amount Remaining:	\$1,280.00
	Percent Remaining:	21.85%

Area Office Project Management

Project Manager: Hank Harrington, NC-210

Office Engineering

Contract Administrator: Kevin Jacobs, MPCO-214

No invoices were received this period.

The contractor has to complete final submittals.

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: Daniel Pavone, MPCO-333

Number of Contract Employees: 0

Work performed:
Site work is complete.

Contract No. R10PC20744

Specification No. 20-C0712

J.F. Carr Power Plant, Generator G1 and G2 Rewinds–NCAO–Shasta Power Plant–Sacramento

River Division–Central Valley Project California

National Electric Coil, Inc., Columbus, OH

Work Performed	June	1.6%
	Time Elapsed	100%
	Work Completed	98.0%
Contractor Earnings	June	\$248,565.06
	Previous	\$14,669,951.25
	Total to Date	\$14,918,516.31
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$69,757.00
	2 nd Quarter Expenditures:	\$118,436.00
	3 rd Quarter Expenditures:	-\$2,190.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$186,003.00
	FY12 Budgeted:	\$234,395.00
	Amount Remaining:	\$48,392.00
	Percent Remaining:	20.65%

Area Office Project Management

Program Manager: John Dotter, NC-261

Office Engineering

Contract Administrator: Kevin Jacobs, MPCO-214

Invoice 8 was received and forwarded to the Denver finance office for processing.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 0

Worked Performed:

No work was performed this period. The upcoming site work will consist of rotor balancing and commissioning.

Contract No. R09PC20126

Specification No. 20-C0727

J.F. Carr Penstock Relining–NCAO, Shasta Power Plant–Sacramento River Division–Central Valley Project, California

Extreme Coatings, Inc., Pasco, WA

Work Performed	June	0%
	Time Elapsed	100%
	Work Completed	99.96%
Contractor Earnings	June	\$0
	Previous	\$2,959,066.97
	Total to Date	\$2,959,066.97
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$17,355.00
	2 nd Quarter Expenditures:	\$941.00
	3 rd Quarter Expenditures:	\$5,388.00
	4 th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$23,684.00
	FY 12 Budgeted:	\$81,740.00
	Amount Remaining:	\$58,056.00
	Percent Remaining:	71.03%

Area Office Project Management

Program Manager: George Girgis

Office Engineering

Contract Administrator: Kevin Jacobs, MPCO-214

No invoices were received this period.

The contract requirement remaining is to complete final submittals.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 0

Work performed:

Site work was completed in April 2012.

Contract No. R10PC20R11

Specification No. 20-C0730

Red Bluff Pumping Plant and Fish Screen, Pumps and Motors–Sacramento River Division–

Sacramento Canals Unit–Central Valley Project, California

MWI Corporation, Deerfield Beach, FL

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	98.4%

Contractor Earnings:	June	\$0
	Previous	\$6,851,884.00
	Total to Date	\$6,851,884.00

MPCO Noncontract Costs: Costs are included with Contract No. R10PC20R33, Red Bluff Pumping Plant and Fish Screen.

Area Office Project Management

Project Manager: Bill Vanderwaal

Office Engineering

Contract Administrator: Kevin Jacobs, MPCO-214

This is a supply contract.

No invoices were received this period.

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: None

Number of Contract Employees: Not applicable as this is a supply contract.

Work Performed:

No work was performed. All pumps have been installed.

Contract No. R10PC20R09

Specification No. 20-C0740

Red Bluff Pumping Plant and Fish Screen, Landfill Excavation and Canal, Siphon and Access
Bridge–Sacramento River Division–Sacramento Canals Unit–Central Valley Project, California
West Bay Builders, Red Bluff, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	95.7%

Contractor Earnings:	June	\$0
	Previous	\$22,275,999.59
	Total to Date	\$22,275,999.59

MPCO Noncontract Costs: Costs are included with Contract No. R10PC20R33, Red Bluff Pumping Plant and Fish Screen.

Area Office Project Management

Project Manager: Bill Vanderwaal, MPCO-122

Office Engineering

Contract Administrator: Kevin Jacobs, MPCO-214

No invoices were received this period.

A large final modification was being prepared this period.

The contractor still has to provide some certified payrolls and final submittals.

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: Daniel Pavone, MPCO-333

Number of Contract Employees: 0

Work Performed:

No work was performed as site work was completed in January 2012. Substantially complete date was December 2, 2011.

Contract No. R10PC20R33

Specification No. 20-C0752

Red Bluff Pumping Plant and Fish Screen–Sacramento River Division–Sacramento Canals Unit–
Central Valley Project, California

Balfour Beatty Infrastructure, Inc., Red Bluff, CA

Work Performed:	June	0%
	Time Elapsed	87.2%
	Work Completed	94.9%
Contractor Earnings:	June	\$0
	Previous	\$72,417,372.41
	Total to Date	\$72,417,372.41
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$644,209.00
	2 nd Quarter Expenditures:	\$424,399.00
	3 rd Quarter Expenditures:	\$508,003.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$1,576,611.00
	FY12 Budgeted:	\$1,944,845.00
	Amount Remaining:	\$368,234.00
	Percent Remaining:	18.93%

Area Office Project Management

Project Manager: Bill Vanderwaal, MPCO-122

Office Engineering

Contract Administrator: Kevin Jacobs, MPCO-214

Invoice 24 was received and forwarded to the Denver finance office for processing. It was not for work done this period but for work done through May 26, 2012.

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: Dave Derk, MPCO-334; Luke Smith, MPCO-309

Number of Contract Employees: 78

Work Performed:

12 to 18 Balfour Beatty employees performed the following work.

Fish Screen: Installation of solid panels above the fish screen panels and concrete repair work on the east end of the fish screen

Pumping Plant:

- Installation of four concrete access ramps on the northeast and southwest sides of the pumping plant
- Installation of eight guard posts (bollards) around the control building
- Completion of punch list items

Site Work:

- Finished installation of the 12" diameter steel dredge pipeline beneath Red Bank Creek Bridge.
- Began installation of the sheet pile caps and handrail atop the north and south canal walls surrounding the canal transition area
- Completed installation of handrail on the south canal wall and continued work on the north canal wall handrail
- Formed and placed the storm water drop inlets surrounding the site

2 All Commercial Fence employees began installation of the site perimeter fence.

An Another Door Company employee installed (1) the interior divider wall door and (2) hardware for the exterior doors at the pumping plant control building.

2 Automated Valve Services employees replaced a position detector card in butterfly valve actuator No. 4 and calibrated the siphon slide gate actuators at the pumping Plant/Siphon Inlet.

7 Central Sierra Electric employees performed the following work

Fish Screen:

- Installation of conductors for the fish screen and boat dock lighting
- Cleaned and grounded electrical boxes for inspection
- Placed non-shrink grout around the bases of electrical conduit/box supports

Pumping Plant:

- Installation of interior and exterior lighting, receptacles, and Light Emitting Diode (LED) exit signs
- Began installation of the fire alarm system
- Installed non-shrink grout and polyurethane joint sealant in the gap between the floor slab and base of the medium voltage variable frequency drives (VFDs).

Switchyard: Unloaded the generator onto the generator pad in the switchyard.

Site Work: Dismantled the temporary distribution board connected to the cable and backfilled over the 5" conduit that once housed the temporary power cable

At the Pumping Plant/Siphon Inlet, 1Corrpro technician took preliminary readings for the impressed current and galvanic cathodic protection systems and retrieved test data to determine

why the impressed current and galvanic protection systems were not meeting specification requirements.

Pumping Plant/Siphon Inlet:

An Eaton Corporation technician troubleshoot and reset alarms and faults at the medium voltage VFDs and installed missing parts and replaced damaged parts at VFD No. 2. The technician performed a three hour training course for the VFDs, low voltage switchgear, and medium voltage switchgear that will be rescheduled because it did not meet the Specification time requirement of two 8-hour periods.

3 FD Thomas painters continued touch-up work at the Fish Screen and pumping plant. They painted and installed joint sealant at the control building.

A G3 Engineering employee held an onsite training class for the sediment jetting system at the fish screen.

2 Harris Salinas Rebar employees installed steel reinforcement bar mats for the storm water drop inlets.

7 Meyers Earthwork employees continued grading and placing gravel surfacing on access roads, and began excavation for the dredge pipeline on the downstream end of Red Bank Creek.

A Mid Pacific Engineering materials technician provided the contractor quality control for the drop inlet and entrance slab concrete placements.

2 Munson Pumps Services employees continued to assemble and install the 14" high density polyethylene dredge pipeline at Red Bank Creek.

A Pacific Power Testing technician tested the ground loop between the pumping plant and switchyard per Specification Section 26 05 20.

15 Pacific States employees completed hauling materials to the Anderson and Tehama landfills. Upon completion, they graded the landfill site and stockpile area and demobilized.

5 Pisor Fence Company employees installed metal beam guardrail along the access road above the forebay.

2 Quality Erectors and Construction ironworkers installed steel channel beams in the pumping plant control building to plug an opening through which birds, insects, and debris could enter.

2 Sabah International technicians installed four clean agent tanks and associated piping for the switchgear room fire suppression system in the control building.

3 Tesco Controls/Frisch Engineering technicians tested the supervisory control and data acquisition (SCADA) system at the pumping plant/fish screen. Tesco and Frisch Engineering technicians programmed the SCADA system and the programmable logic controller.

A WV Alton technician conducted a training course for the control building heating, ventilation and air conditioning system.



Red Bluff Pumping Plant and Fish Screen

Balfour Beatty laborers place concrete for an access ramp at the northeast side of the pumping plant control building.

Contract No. R10PC20102
Specification No. 20-C0755
Spring Creek Powerplant Generators G1 and G2 Rewinds–NCAO–Central Valley Project,
California
Andritz Hydro Corp., Charlotte, NC

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	66.0%

Contractor Earnings:	June	\$0
	Previous	\$7,502,740.65
	Total to Date	\$7,502,740.65

MPCO Noncontract Costs-Unit 1:	1 st Quarter Expenditures:	\$34,398.00
	2 nd Quarter Expenditures:	\$48,523.00
	3 rd Quarter Expenditures:	\$29,040.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$111,961.00
	FY12 Budgeted:	\$148,300.00
	Amount Remaining:	\$36,339.00
	Percent Remaining:	24.50%

MPCO Noncontract Costs-Unit 2:	1 st Quarter Expenditures:	\$5,409.00
	2 nd Quarter Expenditures:	\$3,561.00
	3 rd Quarter Expenditures:	\$1,946.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$10,916.00
	FY12 Budgeted:	\$15,000.00
	Amount Remaining:	\$4,084.00
	Percent Remaining:	27.23%

Area Office Project Management
Project Manager: Joe Ascoli, NC-650

Office Engineering
Contract Administrator: Kevin Jacobs, MPCO-214

No invoices were received this period.

A modification is in the works to change the outage schedule and change the contract completion date from May 2, 2012, to June 28, 2013.

Field Engineering
Construction Manager: Steve Holmes, MPCO-320
Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 0

Work performed:

There was no site work this period. Site work will be resumed next month.

Contract No. R12PC20044

Specification No. 20-C0774a

Station Service Switchgear Replacement–Trinity River Division–Central Valley Project,
California

Eaton Corporation, Raleigh, NC

Work Performed:	June	0%
	Time Elapsed	23.7%
	Work Completed	0.4%

Contractor Earnings:	June	\$0
	Previous	\$0
	Total to Date	\$9,600.59

MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$0.00
	2 nd Quarter Expenditures:	\$5,708.00
	3 rd Quarter Expenditures:	\$13,614.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$19,322.00
	FY12 Budgeted:	\$34,740.00
	Amount Remaining:	\$15,418.00
	Percent Remaining:	44.38%

Area Office Project Management

Project Manager: Jeff Gifford, NC-221

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-211

Notice to Proceed date: April 2, 2012

Invoice 1 was received and forwarded to the Denver finance office for processing. It was not done for work this period but was for work through May 30, 2012.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 0

Work performed:

Onsite work has not begun. Mobilization is scheduled to begin at Spring Creek Power Plant on October 16, 2012, at JF Carr Power Plant on December 20, 2012, and at Trinity Power Plant on February 6, 2013.

Contract No. R11PC20124
Specification No. 20-C0780
Coleman National Fish Hatchery Barrier Weir Site Modifications–Shasta Division–Central
Valley Project, California
Contractor Services Group, Inc., West Sacramento, CA

Work Performed:	June	0%
	Time Elapsed	74.4%
	Work Completed	5.5%
Contractor Earnings:	June	\$0
	Previous	\$49,215.61
	Total to Date	\$49,215.61
MPCO Noncontract Costs:	1st Quarter Expenditures:	\$8,993.00
	2nd Quarter Expenditures:	\$16,189.00
	3rd Quarter Expenditures:	\$15,785.00
	4th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$40,967.00
	FY 12 Budgeted:	\$129,355.00
	Amount Remaining:	\$88,388.00
	Percent Remaining:	68.33%

Area Office Project Manager
 Jim Goodwin, MP-200

Office Engineering
 Contract Administrator: Ryan Hennigan, MPCO-211

No invoices were received this period.

Notice to proceed was issued October 13, 2011.

Field Engineering
 Construction Manager: Randy Wyatt, MPCO-305
 Construction Representative: Fernando Pavone, MPCO-333

Number of Contract Employees: 12

Work performed:
 The contractor and subcontractor mobilized on the site.

The contractor worked on removing rip rap material from the new viewing platform area. The crew also worked on welding and laying down the 4" pipeline for the dewatering system, between the dewatering area and the percolating pond. The crew also worked on installing the new modified handrail along the viewing zone.

Subcontractor, Get'er Done Industries, worked on fabricating forms for the concrete over the existing fish ladder.



Coleman National Fish Hatchery Barrier Weir Site Modifications

Forms for the fish ladder concrete cap.

Contract No. R12PC20053

Specification No. 20-C0789

Shasta Powerplant Control and Computer Room HVAC Replacement–Shasta Division–Central Valley Project, California

Ray-Mac Mechanical, Inc., Mt. Shasta, CA.

Work Performed:	June	0%
	Time Elapsed	74.4%
	Work Completed	0%
Contractor Earnings:	June	\$0
	Previous	\$0
	Total to Date	\$0
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$0.00
	2 nd Quarter Expenditures:	\$3,748.00
	3 rd Quarter Expenditures:	\$22,747.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$26,495.00
	FY12 Budgeted:	\$68,910.00
	Amount Remaining:	\$42,415.00
	Percent Remaining:	61.55%

Area Office Project Management

Project Manager: Jeff Gifford, NC-221

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-214

Notice to Proceed date: April 26, 2012

No invoices were received this period.

MPCO is reviewing the contractor's value engineering change proposal to modify the heating, ventilation, and air conditioning systems.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees:

Work performed:

Site work has not begun. It is scheduled to begin in August 2012.

Contract No. R10PC20025

Specification No. None

Coleman Fish Hatchery Water Intakes Vegetation Replacement and Monitoring–Shasta

Division–Central Valley Project, California

Tehama Environmental Solutions, Inc., Red Bluff, CA

Work Performed:	June	0%
	Time Elapsed	33.9%
	Work Completed	86.6%
Contractor Earnings:	June	\$0
	Previous	\$619,058.07
	Total to Date	\$619,058.07
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$2,445.00
	2 nd Quarter Expenditures:	\$1,241.00
	3 rd Quarter Expenditures:	-\$208.00
	4 th Quarter Expenditures:	\$0.00
	FY 12 Cumulative Total:	\$3,478.00
	FY 12 Budgeted:	\$6,000.00
	Amount Remaining:	\$2,522.00
	Percent Remaining:	42.03%

Area Office Project Management

Project Manager: Hank Harrington, NC-210

Invoice 15 was received and forwarded the Denver finance office for processing. It was not for work done this period but for work done through May 31, 2012.

Office Engineering

Contract Administrator: Jacquelyn Olds, MPCO-202

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: Daniel Pavone, MPCO-333

Number of Contract Employees: 0

Work performed:

The contractor's current activity consists of maintaining vegetation it planted in 2010.

Contract No. R11PC20235

Specification No. None

Red Bluff Diversion Dam, Fish Passage Improvement Project, Terrestrial Mitigation–
Sacramento Canal Units–Sacramento River Division–Central Valley Project, California
Tehama Environmental Solutions, Inc., Red Bluff, CA

Work Performed:	June	0%
	Time Elapsed	5.1%
	Work Completed	1.8%
Contractor Earnings:	June	\$0
	Previous	\$0
	Total to Date	\$79,196.00
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$644,209.00
	2 nd Quarter Expenditures:	\$424,399.00
	3 rd Quarter Expenditures:	\$508,003.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$1,576,611.00
	FY12 Budgeted:	\$1,944,845.00
	Amount Remaining:	\$368,234.00
	Percent Remaining:	18.93%

Area Office Project Management

Project Manager: Bill Vanderwaal, MPCO-122; Hank Herrington, NC-210

Invoice 1 was received this period. It was not for work done this period but for work done through May 11, 2012.

Office Engineering

Contract Administrator: Matthew Byrne, MPCO-255

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: Daniel Pavone, MPCO-333

Number of Contract Employees: 28

Work performed:

Meyers Earthwork excavated approximately 63,000 cubic yards of material at the fish passage channel and the flood plain between stations 17+00 and 30+00 and disposed it at Crain's property, which is near the construction site.



Red Bluff Diversion Dam, Fish Passage Improvement Project, Terrestrial Mitigation
Meyers Earthwork excavating the fish channel passage.

SCCAO

Contract No. R10PC20R32

Specification No. 20-C0749

Fish Screen Structure Phase 3, Contra Costa Canal–Central Valley Project, California

Flatiron West, Inc., Oakley, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	99.4%
Contractor Earnings:	June	\$0
	Previous	\$13,935,225.66
	Total to Date	\$13,935,225.66
MPCO Noncontract Costs::	1 st Quarter Expenditures:	\$113,975.00
	2 nd Quarter Expenditures:	\$42,366.00
	3 rd Quarter Expenditures:	\$42,969.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$199,310.00
	FY12 Budgeted:	\$215,773.00
	Amount Remaining:	\$16,463.00
	Percent Remaining:	7.63%

Area Office Project Management

Project Manager: John Dealy, TO-406

No invoices were received this period.

Office Engineering

Contract Administrator: Larry Bowman, MPCO-240

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Henry Garcia, MPCO-310

Number of Contract Employees: 3

Work performed:

No work was performed.

Contract No. R10PC80R23

Specification No. 20-C0761

Delta-Mendota Canal–California Aqueduct Intertie–Central Valley Project–California

Shimmick Construction Company, Inc., Tracy, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	99.3%

Contractor Earnings:	June	\$0
	Previous	\$15,080,969.87
	Total to Date	\$15,080,969.87

MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$351,595.00
	2 nd Quarter Expenditures:	\$269,288.00
	3 rd Quarter Expenditures:	\$136,450.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$757,333.00
	FY12 Budgeted:	\$816,267.00
	Amount Remaining:	\$58,934.00
	Percent Remaining:	7.22%

Non ARRA Costs:	1 st Quarter Expenditures:	\$26,881.00
	2 nd Quarter Expenditures:	\$6,523.00
	3 rd Quarter Expenditures:	-\$1,507.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$31,897.00
	FY12 Budgeted:	\$31,897.00
	Amount Remaining:	\$0.00
	Percent Remaining:	0.00%

Area Office Project Management

Project Manager: Erika Kegel, MP-730

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-211

No invoices were received this period.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Chris Van Deusen, MPCO-345; Andrew Garcia, MPCO-335

Number of Contract Employees: 4

Work performed:

All site work except for punch list items was completed in May 2012. The contractor and subcontractors worked on punch list items this period.

Purchase Order No. R11PC20155

Specification No.20-C0776a

Delta Cross Channel Gate Control and Lighting Improvements–Central Valley Project,
California

Sierra Range Construction, Visalia, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	88.7%
Contractor Earnings:	June	\$0
	Previous	\$112,405.58
	Total to Date	\$112,405.58
MPCO Noncontract Costs:	1st Quarter Expenditures:	\$10,363.00
	2nd Quarter Expenditures:	\$24,030.00
	3rd Quarter Expenditures:	\$15,693.00
	4th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$50,086.00
	FY12 Budgeted:	\$129,330.00
	Amount Remaining:	\$79,244.00
	Percent Remaining:	61.27%

Area Office Project Management

Project Manager: Warren Feng, TO-438

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-211

No invoices were received this period.

The contractor dealt with the Contracting Officer on the issue that there are missing spare parts.
The issue was not resolved.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Henry Garcia, MPCO-310

Number of Contract Employees: 3

Work performed:

Gate Control and Lighting System:

The contractor made two site visits to address the following control panel issues: wiring labeling, wiring connectors and connections, site lighting and wire schematics.

The contractor successfully tested the radio control for the remote operation of the gates and trained Bureau of Reclamation employees on its operation. The contractor installed various pieces of electrical equipment and removed the eight old wire rope pins.

Contract No. R12PC20055

Specification No.20-C0776b

Delta Cross Channel Gate Hoist Wire Rope Replacement–Central Valley Project, California
Sierra Range Construction, Visalia, CA

Work Performed:	June	10.0%
	Time Elapsed	100%
	Work Completed	100%

Contractor Earnings:	June	\$10,047.75
	Previous	\$90,429.73
	Total to Date	\$100,477.48

MPCO Noncontract Costs: Costs are included with Contract No. R11PC20155, Delta Cross Channel Gate Control and Lighting Improvements.

Area Office Project Management

Project Manager: Yow-min (David) Tsao, TO-435

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-211

Invoice 2-Final was received and forwarded to the Denver finance office for processing.

Field Engineering

Construction Manager: Henry Garcia, MPCO-310

Construction Representative: Henry Garcia, MPCO-310

Number of Contract Employees: 3

Work Performed:

The eight old wire rope pins, which were replaced with the wire rope during the contract activities, were removed from the jobsite.

Miscellaneous:

The facilities were vandalized, in that the chain link fence was cut open at three locations, and based on the information gathered it is speculated this was done by local fishermen.



Delta Cross Channel Gate Hoist Wire Rope Replacement

Gates successfully opened at the end of the day.

Contract No. R11PC20185

Specification No. 20-C0778

Tracy 13.8kV Switchgear/Breaker Replacement–Tracy Pumping Plant and Substation–Central Valley Project, California

Contra Costa Electric Corp., Martinez, CA

Work Performed:	June	0.6%
	Time Elapsed	20.3%
	Work Completed	8.0%
Contractor Earnings:	June	\$70,567.73
	Previous	\$854,892.15
	Total to Date	\$925,459.88
MPCO Noncontract Costs:	1st Quarter Expenditures:	\$26,018.00
	2nd Quarter Expenditures:	\$8,349.00
	3rd Quarter Expenditures:	\$19,883.00
	4th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$54,250.00
	FY12 Budgeted:	\$80,000.00
	Amount Remaining:	\$25,750.00
	Percent Remaining:	32.19%

Area Office Project Management

Project Manager: Warren Feng, TO-438

Office Engineering

Contract Administrator: Amber Pierce, MPCO-205

This is a design/build contract.

Invoice 3 was received and forwarded to the Denver finance office for processing. The invoice reimbursed the contractor for the cost of design work.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: Not yet determined.

Number of Contract Employees: 0

Work performed:

No site work was performed because the contractor has not yet mobilized to the site.

Regional

Contract No. R10PC20005

Specification No. 20-C0717

North Fork Screens and Ladders–Battle Creek Salmon and Steelhead Restoration Project,
California

Syblon Reid Contractors, Folsom, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	97.1%
Contractor Earnings:	June	\$0
	Previous	\$11,912,247.39
	Total to Date	\$11,912,247.39
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$119,955.00
	2 nd Quarter Expenditures:	\$31,593.00
	3 rd Quarter Expenditures:	\$47,261.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$198,809.00
	FY12 Budgeted:	\$254,210.00
	Amount Remaining:	\$55,401.00
	Percent Remaining:	21.79%

Area Office Project Management

Project Manager: Mary Marshall, MP-203

Office Engineering

Contract Administrator: Kent Perkes, MPCO-225

The only thing remaining for the contractor to perform is to gain approval of a few final submittals including as-built drawings.

No invoices were received this period.

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: John Pospishil, MPCO-321

Number of Contract Employees: 0

Work performed:

The contractor completed all contract site work in December 2011, and demobilized its field office.

Contract No. R10PC20R48

Specification No. 20-C0741

Gray Lodge Wildlife Area and Pixley National Wildlife Refuge Wetlands–Groundwater Well
Construction–ARRA Project No. 28.113–Central Valley Project–East Side Division, California
Sansone Company, Inc., San Luis Obispo, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	97.0%
Contractor Earnings:	June	\$0
	Previous	\$4,791,270.59
	Total to Date	\$4,791,270.59
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$48,128.00
	2 nd Quarter Expenditures:	\$30,301.00
	3 rd Quarter Expenditures:	\$27,195.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$105,624.00
	FY12 Budgeted:	\$110,377.00
	Amount Remaining:	\$4,753.00
	Percent Remaining:	4.31%

Area Office Project Management

Project Manager: Sonya Nechanicky, MP-410

Office Engineering

Contract Administrator: Laurie Larson, MPCO-222

Invoice 10 was received and forwarded to the Denver finance office for processing.

We are dealing with issues with the contractor regarding coatings, Pacific Gas and Electric, and equipment.

Field Engineering

Construction Manager: John E. Nelson, MPCO-328

Construction Representative: Richard T. Nead, MPCO-342

Number of Contract Employees: 0

Work performed:

Pixley

No onsite construction activities this month, contractor has met all of his field contractual obligations, a substantially complete has been issued.

Gray Lodge – Field Pump Test

No onsite construction activities this month, contractor has met all of his field contractual obligations, a substantially complete has been issued.

Future Work

Possible turnover meeting to provide refuge personnel training in the operation and maintenance of the pumps, motors and electrical systems.

Contract No. R10PC20R39

Specification No. 20-C0744

Volta Wasteway Refuge Level 2 Diversification Phase I Project–ARRA Project No. 28.129–

Central Valley Project, California

Sansone Company Inc., San Luis Obispo, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	99.5%
Contractor Earnings:	June	\$0
	Previous	\$1,704,452.80
	Total to Date	\$1,704,452.80
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$4,347.00
	2 nd Quarter Expenditures:	\$1,283.00
	3 rd Quarter Expenditures:	\$2,839.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$8,469.00
	FY12 Budgeted:	\$26,638.00
	Amount Remaining:	\$18,169.00
	Percent Remaining:	68.21%

Area Office Project Management

Project Manager: Linda Colella, MP-410

Office Engineering

Contract Administrator: Laurie Larson, MPCO-222

No invoices were received this period.

All submittals complete, contractor is submitting final REA.

The substantially complete date was August 12, 2011.

Field Engineering

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: John Nelson, MPCO-328

Number of Contract Employees: 0

Work performed:

No on site work was performed as all site work has been completed.

Contract No. R10PC20R42

Specification No. 20-C0746

Hydropower Facility Modifications-Stage 1–Battle Creek Salmon and Steelhead Restoration Project, California

RTA Construction/Ray Toney JV, Redding, CA

Work Performed:	June	0%
	Time Elapsed	80.0%
	Work Completed	61.8%
Contractor Earnings:	June	\$0
	Previous	\$4,903,509.47
7	Total to Date	\$4,903,509.47
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$190,690.00
	2 nd Quarter Expenditures:	\$181,739.00
	3 rd Quarter Expenditures:	\$180,286.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$552,715.00
	FY12 Budgeted:	\$697,837.00
	Amount Remaining:	\$145,122.00
	Percent Remaining:	20.80%

Area Office Project Management

Project Manager: Mary Marshall, MP-203

Office Engineering

Contract Administrator: Kent Perkes, MPCO-225

Invoice 17 was received and forwarded to the Denver finance office for processing. It was not done for work this period but was for work through May 31, 2012.

Field Engineering

Construction Manager: Randy Wyatt, MPCO-305

Construction Representative: John Pospishil, MPCO-321

Number of Contract Employees: 30

Work performed:

Penstock Bypass Pipeline: RTA continued backfilling the 66-inch reinforced concrete pipe and installed the air vent. RTA also continued spreading permanent stockpiles and topsoil in Use Area 4 and set the precast manhole at station 10+50.

Penstock Bypass Chute: Muse Concrete patched previously placed concrete.

RTA began installation of the 6-inch perforated polyethylene drain pipe on the right and left sides of the Penstock Bypass chute. RTA placed filter and pervious backfill material for bypass chute drains. RTA finished excavation for and placed backfill at Chute Slab 19.

Mount Lassen Trout Farm Pipe (MLTFP): RTA finished installation of the permanent MLTFP this period.

Lower Jump Basin: RTA began backfilling and installing handrail at the lower jump basin.

Muse Concrete focused their efforts on sack and patch of the lower jump.

Rock screen and rock crusher: Schnetzer Engineering resumed rock screening 3-inch minus material in Use Areas 2 and 11 and rock crushing in Use Areas 2 and 4.

84-inch Reinforced Concrete Pipe: RTA began excavating for the 84-inch reinforce concrete pipe at the Tailrace Outlet structure and installed pipe sections 2 through 11 and placed 65 cubic yards of controlled low-strength material.

Tailrace Inlet: RTA began excavation for the Tailrace Inlet.

A Road: RTA continued excavation for A Road.



Hydropower Facility Modifications-Stage 1
The contractor moving the excavator down the chute hill under the 12 and 60 KVA Powerlines

Purchase Order No. R10PX20R45

Specification No. 20-C0750

Drought Relief, Well Enhancements–ARRA Project No. 28.000–Central Valley Project
California

Hydro Resources–West, Inc., Winnemucca, NV

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	47.2%

Contractor Earnings:	June	\$0
	Previous	\$555,369.60
	Total to Date	\$603,766.10

MPCO Noncontract costs: Costs are included with Contract No. R10PX20R54, Drought Relief, Well Enhancements.

Area Office Project Management

Project Manager: Kevin Clancy, MP-410

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-211

Invoice 6-Final was received and forwarded to the Denver finance office for processing. It was not done for work this period but was for work through May 31, 2012.

A modification was being prepared this period by Acquisition Services Division to deobligate the excess funds.

Field Engineering

Construction Manager: John Nelson, MPCO-328

Construction Representative: Mike McCarty, MPCO-308

Number of Contract Employees: 0

Work performed:

No work was done this period as site work was completed in May 2012.

Purchase Order No. R10PX20R54

Specification No. 20-C0750

Drought Relief, Well Enhancements–ARRA Project No. 28.000–Central Valley Project Don
Pedro Pump, LLC–Turlock, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	86.5%
Contractor Earnings:	June	\$0
	Previous	\$1,084,249.60
	Total to Date	\$1,084,249.60
MPCO Noncontract Costs:	1 st Quarter Expenditures:	\$20,330.00
	2 nd Quarter Expenditures:	\$5,396.00
	3 rd Quarter Expenditures:	\$15,081.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$40,807.00
	FY12 Budgeted:	\$253,034.00
	Amount Remaining:	\$212,227.00
	Percent Remaining:	83.87%

Area Office Project Management

Project Manager: Kevin Clancy, MP-410

Office Engineering

Contract Administrator: Ryan Hennigan, MPCO-211

No invoices were received this period.

Field Engineering

Construction Manager: John Nelson, MPCO-328

Construction Representative: Mike McCarty, MPCO-308

Number of Contract Employees: 0

Work performed:

No work was performed. Contractor is waiting for Pacific Gs and Electric to provide power.

Contract No. R10PC20R80
Specification No. 20-C0759
Drought Relief–Construction of New Wells–ARRA Project No. 28.002–California
Layne Christensen Company, Fontana, CA

Work Performed:	June	0%
	Time Elapsed	100%
	Work Completed	84.1%
Contractor Earnings:	June	\$0
	Previous	\$12,090,550.34
	Total to Date	\$12,090,550.34
MPCO Noncontract Costs::	1 st Quarter Expenditures:	\$78,267.00
	2 nd Quarter Expenditures:	\$74,373.00
	3 rd Quarter Expenditures:	\$72,643.00
	4 th Quarter Expenditures:	\$0.00
	FY12 Cumulative Total:	\$225,283.00
	FY12 Budgeted:	\$457,070.00
	Amount Remaining:	\$231,787.00.00
	Percent Remaining:	50.71%

Area Office Project Management
Project Manager: Kevin Clancy, MP-410

Office Engineering
Contract Administrator: Laurie Larson, MPCO-222

No invoices were received this period.

Field Engineering
Construction Manager: John E. Nelson, MPCO-328
Construction Representative: Quint I. McCabe, MPCO-304

Modification executed February 23, 2012 that extended the contract until June 30, 2012.

Number of Contract Employees: 0

Work performed:
DPWD Well 50a Rig down / Demobilize Drill Rig / Develop the Well
DPWD Well 96, 84 Four Hour Startup, Servicing and Field-Testing/Monitoring
DPWD Well 97 Four Hour Startup, Servicing and Field-Testing/Monitoring
WSID Well 121, Four Hour Startup, Servicing and Field-Testing/Monitoring
WSID Well 29 Four Hour Startup, Servicing and Field-Testing/Monitoring
WSID Well 33.2 Install Pump and Component / Top out Motor
GLWD Well 8.01, 8.03 & 8.04 Construct Well Head and Place Concrete Foundations

GLWD Well 8.06, 8.04 Tie in Electrical Conduit
GLWD Well 8.06 Install Discharge Pipe
GLWD Well 8.03, & 8.04 Install Pump and Components
GLWD Well 8.06 Bolt down Discharge Head / Top out Motor
GLWD Well 8.03 Set and Anchor the Control Cabinet and Top out Motor
GLWD Well 8.01 Set and Anchor the Control Cabinet
SLWD Well 47 Develop and Test

Upcoming work:

Startup Servicing and Field-Testing/Monitoring in the Northern zones (DWPD, WSID, GLWD)
GLWD Wells 8.04 Set Control Cabinet, Tie-in to Power Supply Pole and Top out Motor
GLWD Wells 8.01 Set pump and Motor, Tie-in to Power Supply Pole and Top out Motor
WSID Wells 33.1 Install Pumping Equipment, Set Control Cabinet and Electrical Top out Motor

Contracts in Warranty Status

R09PC20R03, 20-C0677 Transformer K1A and K2A Replacements, Folsom Power

There was no Office Engineering Administrative activity this period.

This contract has not been contractually closed (5-year warranty for K1A extends to January 30, 2016, and that for K2A extends to January 4, 2017).

R09PC20017, 20-C0708 Marble Bluff Fish Handling Building Reroofing

There was no Office Engineering Administrative activity this period.

This contract has not been contractually closed (5-year roof guarantee extends to March 5, 2015).

R10PC20176, 20-C0713 New Melones Resource Area Building Re-roofing

There was no Office Engineering Administrative activity this period.

This contract has not been contractually closed (3-year roof guarantee extends to March 25, 2013).

R10PC20R24, 20-C0751 Folsom Dam, Safety of Dams Modifications, Spillway Piers and Gates–
American River Division–Folsom Unit, Central Valley Project, California
Kiewit Infrastructure West Co., Folsom, CA

There was no Office Engineering Administrative activity this period.

R09PC20147, 20-C0758 New Melones Lake Restroom Building Reroofing

There was no Office Engineering Administrative activity this period.

This contract has not been contractually closed (3-year roof guarantee extends to May 20, 2014).

R10PC20185, 20-C0762 Whiskeytown Lake Temperature Control Curtain

There was no Office Engineering Administrative activity this period.

This contract has not been contractually closed (5-year warranty for the geomembrane material extends to June 16, 2016).

R10PC20196, 20-C0769 Control Upgrade and Modernization of the Gantry Crane at Nimbus
Powerplant–American River Division, Folsom Unit, Central Valley Project, California
Crane America Services, Inc., Livermore, CA

There was no Office Engineering Administrative activity this period.

R11PC20087 Coleman National Fish Hatchery, Water Intake No. 3 Repairs to Fish
Screen

There was no Office Engineering Administrative activity this period.

This contract has not been contractually closed (1-year warranty extends to July 13, 2012).

07/02/2012

U.S. Bureau of Reclamation
SUMMARY OF FIELD AND LABORATORY TESTS OF COMPACTED FILL
CONTROLLED BY THE LABORATORY COMPACTION METHOD

Page 1

PROJECT: Battle Creek

SPECIFICATION REQUIREMENTS:

PERIOD OF REPORT: 06/01/2012 - 06/30/2012

FEATURE: Hydropower Facility Mods Stage 1

Min percent compaction (D-Value): 95.00 %
Min average D-Value for ALL tests: 95.00 %
Max DRY Wo-Wf: 2.00
Max WET Wo-Wf: -2.00

SPECIFICATION NO: 20-C0746

FILL NAME: 2 - Structural Backfill

TEST NUMBER						LOCATION			FIELD DENSITY TESTS								LABORATORY VALUES					COMPACTION CONTROL VALUES					VISUAL SOIL CLASS	OTHER TESTS	REMARKS		
M	S	N	S	B	O				MINUS #3/4																						
O	H	M	T																												
N	D	I	B	Y	T	R																									
T	A	F	E	P	U	O	STATION	OFF SET	ELEV	METH	USBR	WET DEN	MOIS TOT	SPEC PLUS	GRAV -3/4	DEG OF	COMP TEST	MAX DRY	OPT MOIS	DEG OF	Wo-Wf	C	D	PENE NEED							
H	Y	T	R	E	S	W						(PCF)	(%)	(%)	(%)	(%)	(PCF)	(PCF)	(PCF)	(%)	(%)	(%)	(PSI)								
06-12-A-01-R-A						1	55+12	2.5L	1014	SF	7205	131.6	13.3	19.7	2.52	AV	109.8	15.7	80	R	122.4	107.3	17.3	83	1.6	103.8	102.3	NA	(SC)G	N	
06-13-A-01-R-A*						1	54+91	2'L	1014	SR	7205	135.6	12.5	26.6	2.49	AV	113.0	15.2	85	R	119.9	105.8	17.9	83	2.7	108.6	106.8	NA	(SC)G	N	
06-13-A-02-R-A						1	55+00	2.5R	1015	SF	7205	134.6	14.0	18.2	2.47	AV	113.3	15.8	89	R	124.8	107.9	15.5	76	-0.3	105.1	105.0	NA	(SC)G	N	
06-14-A-01-R-A*						1	54+96	2'R	1017	SF	7205	121.2	10.8	20.8	2.35	AV	103.8	12.0	53	R	118.1	107.3	16.0	77	4.0	98.4	96.7	NA	(SC)G	N	
06-15-A-01-R-A						1	54+98	6'L	1018	SF	7205	134.2	12.1	28.6	2.53	AV	110.2	15.6	81	R	126.9	109.8	15.2	78	-0.4	100.4	100.4	NA	(SC)G	N	
ACCEPTED TESTS THIS PERIOD: 5												AVG.	131.4	12.5	22.8	2.47		110.0	14.9	78		122.4	107.6	16.4	79	1.5	103.3	102.2			
												S.D.	5.9	1.2	4.6	0.07		3.8	1.6	14		3.6	1.4	1.2	3	1.9	4.0	4.0			
												C.O.V.	4.5	9.7	20.0	2.92		3.5	10.9	19		2.9	1.3	7.1	4	125.5	3.9	3.9			

AV: Assumed Values used for Specific Gravity dependant calculations. + #4=2.75 - #4=2.68

07/02/2012

U.S. Bureau of Reclamation
 STATISTICAL SUMMARY OF FIELD AND LABORATORY TESTS OF COMPACTED FILL
 CONTROLLED BY THE LABORATORY COMPACTION METHOD

Page 2

PROJECT: Battle Creek

SPECIFICATION REQUIREMENTS:

PERIOD OF REPORT: 06/01/2012 - 06/30/2012

FEATURE: Hydropower Facility Mods Stage 1

Min percent compaction (D-Value): 95.00 %
 Min average D-Value for ALL tests: 95.00 %
 Max DRY Wo-Wf: 2.00
 Max WET Wo-Wf: -2.00

SPECIFICATION NO: 20-CO746

FILL NAME: 2 - Structural Backfill

	This Period	To Date
No. of Tests Taken	5	36
No. of Tests Accepted	5	34
No. of Tests Rejected	0	2
No. of Rejected Tests not Re-Checked	0	2
Average Water Content Total Material	12.5	11.5
Average Control Fraction Water Content	14.9	15.0
Average Optimum Water Content	16.4	16.5
Average Wo-Wf	1.5	1.6
Percent of Accepted Tests Dryer Than 2.00	40.0	29.4
Percent of Accepted Tests Wetter Than -2.00	0.0	0.0
Average Wet Density Total Material (PCF)	131.4	134.6
Average Control Fraction Dry Density (PCF)	110.0	110.0
Average Proctor Max Dry Density (PCF)	107.6	111.2
Average Compaction Cylinder Wet Density (PCF)	122.4	125.8
Average Percent +3/4 Material (%)	22.8	30.5
Average C-Value (%)	103.3	100.4
Average D-Value (%)	102.2	98.9
Percent Accepted with D-Value < 95.0	0.0	11.8
Tests Accepted Outside of Specification Limits	2	14
Minimum D-Value of 95.0 %	0	4
Max DRY Wo-Wf of 2.00	2	10

07/02/2012

U.S. Bureau of Reclamation
Concrete Construction Data

Page 1

Concrete Class: Structural Concrete
Report of Mixes Used From 05/01/2012 to 06/30/2012Mix Design Number: F670AFPX7
Specification Number: 20-C0746
Project: Battle Creek
Feature: Hydropower Facility Modifications Stage 1

Date Time	y^3 of Conc	Percent Of						Yield Quantities per Cubic Yard										T E Cem M Eff P	Fresh Concrete Tests						Compressive Strength Of Individual Specimens (psi)						
		Coarse Aggregate in each size						Pounds						Oz						Slump (ins)	UW (pcf)	W/ C+P	Air		3 Day	7 Day	28 Day	90 Day	180 Day	1 Year	
		Sand	CA1	CA2	CA3	CA4	Water	Cem	Poz	Sand	C.A.	AD#3	AEA	WRA	AD#4	AD#5	Grav Meth		Press Meter												
05/05/2012 06:28 36.00		46.8	100.0	0.0	0.0	0.0	244	534	101	1374	1529	0	12.0	18.8	24.9	0.0	6.7	68	3.50	140.1	0.38	5.5	4.7			2550 2580	3640 3500				
05/11/2012 07:10 20.00		45.8	100.0	0.0	0.0	0.0	269	551	98	1391	1611	0	7.2	25.7	19.5	0.0	8.0	75	1.75	145.2	0.41	1.4	3.8			3340 3400	4420 4390				
05/18/2012 05:06 14.00		44.3	100.0	0.0	0.0	0.0	214	544	96	1336	1643	0	6.7	25.6	19.2	0.0	8.8	66	3.00	141.9	0.33	5.5	4.7			3660 3540	4810 4740				
11:44 22.50		44.3	100.0	0.0	0.0	0.0	230	551	104	1334	1640	0	7.4	25.5	19.2	0.0	7.1	77	1.25	142.9	0.35	4.2	4.8			2880 2870	3860 3930				
Design		47.4	100.0	0.0	0.0	0.0	280	536	95	1357	1507	0	3.1	25.2	18.9	0.0			3.00	139.8	0.44	4.0	4.0			4000					
AVG.		45.3	100.0	0.0	0.0	0.0	239	545	100	1359	1606	0	8.3	23.9	20.7	0.0	7.6	72	2.38	142.5	0.37	4.1	4.5			3103	4161				
S.D.		1.2	0.0	0.0	0.0	0.0	23	8	4	28	53	0	2.5	3.4	2.8	0.0	0.9	5	1.05	2.1	0.04	1.9	0.5			436	497				
C.O.V		2.7	0.0	0.0	0.0	0.0	9.7	1.5	3.5	2.1	3.3	0.0	29.7	14.1	13.6	0.0	12.3	7.4	44.2	1.5	9.6	46.6	10.4			14.0	11.9				

Bureau.....: Required average strength = -8521 psi at 28 days. Based on 90% exceeding the design strength of 4000 psi & C.O.V. (n=52) = **.*

ACI.....: Required average strength = 17913 psi at 28 days (n=52)

CURE METHOD...: Water Tank with an Average Cure Temperature of 60 - 80 (F)

07/02/2012

U.S. Bureau of Reclamation
Concrete Construction Data

Page 2

Concrete Class: Structural Concrete
Report of Mixes Used From 05/01/2012 to 06/30/2012

Mix Design Number: F670GFPW8
 Specification Number: 20-C0746
 Project: Battle Creek
 Feature: Hydropower Facility Modifications Stage 1

Date Time	y^3 of Conc	Percent Of Coarse Aggregate in each size				Yield Quantities per Cubic Yard										T E M P	Fresh Concrete Tests						Compressive Strength Of Individual Specimens (psi)					
						Pounds					Oz						Cem Eff	Slump (ins)	UW (pcf)	W/ C+P	Air		3 Day	7 Day	28 Day	90 Day	180 Day	1 Year
		Sand	CA1	CA2	CA3	CA4	Water	Cem	Poz	Sand	C.A.	AD#3	AEA	WRA	AD#4						AD#5	Grav Meth						
05/04/2012																												
12:43	10.00	47.0	100.0	0.0	0.0	0.0	277	522	100	1394	1533	0	10.3	48.4	43.4	0.0	5.7	76	3.25	141.7	0.45	3.2	4.6	2320	2920			
																							2370	3040				
05/09/2012																												
06:25	16.50	46.2	100.0	0.0	0.0	0.0	260	522	95	1372	1561	0	8.8	49.1	24.8	0.0	7.8	73	3.25	141.1	0.42	4.2	5.7	3080	4030			
																							3130	4120				
05/11/2012																												
09:20	10.50	46.0	100.0	0.0	0.0	0.0	257	528	96	1383	1584	0	6.7	49.5	25.7	0.0	8.0	77	3.00	142.5	0.41	3.4	5.4	3150	4210			
																							3250	4230				
05/18/2012																												
06:33	15.00	44.6	100.0	0.0	0.0	0.0	226	526	93	1350	1637	0	6.7	49.4	24.7	0.0	8.5	66	3.50	141.9	0.37	5.0	5.5	3400	4530			
																							3520	4400				
05/24/2012																												
08:41	13.25	45.1	100.0	0.0	0.0	0.0	246	529	94	1362	1621	0	6.5	50.1	24.5	0.0	9.7	75	3.00	142.7	0.39	3.7	4.4	4030	5150			
																							3870	5090				
05/30/2012																												
06:13	16.00	46.0	100.0	0.0	0.0	0.0	275	517	91	1350	1550	0	6.1	48.5	30.3	0.0	7.5	75	3.25	140.1	0.45	4.2	5.6	3020	3820			
																							3080	3910				
05/31/2012																												
05:39	12.00	45.9	100.0	0.0	0.0	0.0	259	533	95	1389	1598	0	6.3	50.3	31.4	0.0	9.5	71	3.75	143.5	0.41	2.8	4.5	3960	5150			
																							3960	4950				
06/18/2012																												
09:08	4.75	46.1	100.0	0.0	0.0	0.0	250	519	96	1358	1549	0	5.0	49.7	30.3	0.0	85		3.00	139.7	0.41	5.3	4.6	4390	#####			
																							3710	#####				
Design		44.4	100.0	0.0	0.0	0.0	285	536	95	1267	1585	0	2.1	50.4	50.4	0.0			6.00	139.6	0.45	4.0	4.0		4000			
AVG.		45.9	100.0	0.0	0.0	0.0	256	525	95	1370	1579	0	7.1	49.4	29.4	0.0	8.1	75	3.25	141.7	0.41	4.0	5.0	3390	4254			
S.D.		0.7	0.0	0.0	0.0	0.0	16	5	3	17	37	0	1.7	0.7	6.3	0.0	1.3	5	0.27	1.3	0.03	0.9	0.6	581	708			
C.O.V		1.6	0.0	0.0	0.0	0.0	6.4	1.0	2.8	1.3	2.4	0.0	23.8	1.4	21.6	0.0	16.5	7.2	8.2	0.9	6.7	21.7	11.1	17.1	16.6			

Bureau.....: Required average strength = 4755 psi at 28 days. Based on 90% exceeding the design strength of 4000 psi & C.O.V. (n=39) = 12.4

ACI.....: Required average strength = 4752 psi at 28 days (n=39)

CURE METHOD...: Water Tank with an Average Cure Temperature of 70 - 76 (F)

= Specimen not broken as of report date.

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Aggregate Gradation Summary

From 06/01/2012 to 06/30/2012

Specification : 20-C0746
Mix Number : ALL Combined for This Specification
Project : Battle Creek
Feature : Hydropower Facility Modifications Stage 1

Sand Gradations (ASTM)

Date	Percent Passing							% -200	FINE MOD	Moist %	Spec Grav	Absorp
	No. 3/8"	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100					
Spec Max %	100.0	100.0	100.0	85.0	60.0	30.0	10.0					
Spec Min %	100.0	95.0	80.0	50.0	25.0	10.0	2.0					
06/18/2012	100.0	99.8	81.4	56.7	33.9	16.4	6.3	3.40	3.06	1.00	2.60	2.20
—												
Average	100.0	99.8	81.4	56.7	33.9	16.4	6.3	3.40	3.06	1.00	2.60	2.20
S.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
C.O.V.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00

Aggregate Gradation Summary

From 06/01/2012 to 06/30/2012

Specification : 20-C0746
Mix Number : ALL Combined for This Specification
Project : Battle Creek
Feature : Hydropower Facility Modifications Stage 1

Nominal Size : #4 - 1" (ASTM)

Coarse Aggregate Gradations

Date	Percent Passing Screen Sizes in Inches or Sieve Size Shown					% -200	Moist %	Spec Grav	Absorp
	1 1/2"	1"	1/2"	#4	#8				
Spec Max %	100.0	100.0	60.0	10.0	5.0				
Spec Min %	100.0	95.0	25.0	0.0	0.0				
06/18/2012	100.0	98.0	26.3	1.2	0.9	0.20	1.00	2.54	2.40
Average	100.0	98.0	26.3	1.2	0.9	0.20	1.00	2.54	2.40
S.D.	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
C.O.V.	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00

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Concrete Construction Data

Concrete Class: Lean Concrete Fill
Report of Mixes Used From 06/01/2012 to 06/28/2012

Mix Design Number: 1529207
Specification Number: 20-C0754
Project: MIAD Key-Block
Feature: Lean Concrete

		Percent Of														Fresh Concrete Tests						Compressive Strength Of Individual Specimens								
(psi)		Coarse Aggregate						Yield Quantities per Cubic Yard								T		E				Air								
	y^3																													
Date	of	in each size						Pounds				Oz				Cem	M	Slump	UW	W/	Grav	Press	3	7	28	90	180			
1	Time	Conc	Sand	CA1	CA2	CA3	CA4	Water	Cem	Poz	Sand	C.A.	AD#3	AEA	WRA	AD#4	AD#5	Eff	P	(ins)	(pcf)	C+P	Meth	Meter	Day	Day	Day	Day	Day	
Year																														
06/28/2012																														
08:52	566.00	73.0	100.0	0.0	0.0	0.0	0.0	467	398	101	2039	758	0	0.0	0.0	0.0	0.0	72		7.50	139.4	0.94	0.7	0.4			#####	#####		
10:35	566.00	73.1	100.0	0.0	0.0	0.0	0.0	473	402	103	2068	763	0	0.0	0.0	0.0	0.0	77		7.00	141.1	0.94	0.6	0.7			#####	#####	#####	
12:41	568.00	73.0	100.0	0.0	0.0	0.0	0.0	470	401	100	2047	760	0	0.0	0.0	0.0	0.0	78		6.75	139.9	0.94	0.2	0.6			#####	#####	#####	
Design		45.0	100.0	0.0	0.0	0.0	0.0	475	399	101	1257	1542	0	0.0	0.0	0.0	0.0			8.00	139.8	0.95	0.4	0.4			1000			
AVG.		73.0	100.0	0.0	0.0	0.0	0.0	470	400	101	2051	760	0	0.0	0.0	0.0	0.0	0.0	76		7.08	140.1	0.94	0.1	0.6					
S.D.		0.1	0.0	0.0	0.0	0.0	0.0	3	2	2	15	3	0	0.0	0.0	0.0	0.0	0.0	3		0.38	0.9	0.00	0.7	0.2					
C.O.V		0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.5	1.5	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	4.3		5.4	0.6	0.1	**.*	27.0					

Bureau.....: Required average strength = 1238 psi at 28 days. Based on 90% exceeding the design strength of 1000 psi & C.O.V. (Est.) = 15.0
ACI.....: Required average strength = 2000 psi at 28 days (n=2)
CURE METHOD...: Fog with an Average Cure Temperature of 65 - 85 (F)

= Specimen not broken as of report date.

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U.S. Bureau of Reclamation
Aggregate Gradation Summary

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From 06/01/2012 to 06/03/2012

Specification : 20-C0754
Mix Number : 1534982
Project : MIAD Key-Block
Feature : MIAD Key-Block Lean Concrete

Nominal Size : 1" (ASTM)

Combined Aggregate Gradations

Date	Percent Passing Screen Sizes in Inches or Sieve Size Shown					% -200	Moist %	Spec Grav	Absorp
	1 1/2"	1"	1/2"	#4	#8				
Spec Max %		100.0		50.0		10			
Spec Min %		100.0		0.0		0			
02/16/2012		100.0		45.9		8.1	N/A	2.72	1.00
02/23/2012		100.0		43.5		7.7	3.15		
03/02/2012		100.0		42.9		6.6	5.5	2.72	1.00
03/05/2012		100.0		47.2		7.9	N/A	2.72	1.00
03/09/2012		100.0		48.3		7.8	5.5	2.72	1.00
03/21/2012		100.0		46.6		7.9	5.0	2.72	1.00
06/28/2012		100.0		50.8		9.5	N/A	2.72	1.00
Average		100.0		46.5		7.9	3.80	2.72	1.00

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U.S. Bureau of Reclamation
Aggregate Gradation Summary

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From 06/01/2012 to 06/30/2012

Specification : 20-C0752
Mix Number : ALL Combined for This Specification
Project : Central Valley
Feature : Red Bluff Pumping Plant and Fish Screen

Sand Gradations (ASTM)

Date	Percent Passing							% -200	FINE MOD	Moist %	Spec Grav	Absorp
	No. 3/8"	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100					
Spec Max %	100.0	100.0	100.0	85.0	60.0	30.0	10.0					
Spec Min %	100.0	95.0	80.0	50.0	25.0	10.0	2.0					
06/06/2012	100.0	99.8	81.4	57.0	33.8	16.1	6.0	3.00	3.06	3.00	2.60	2.20
Average	100.0	99.8	81.4	57.0	33.8	16.1	6.0	3.00	3.06	3.00	2.60	2.20
S.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
C.O.V.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00

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U.S. Bureau of Reclamation
Aggregate Gradation Summary

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From 06/01/2012 to 06/30/2012

Specification : 20-C0752
Mix Number : ALL Combined for This Specification
Project : Central Valley
Feature : Red Bluff Pumping Plant and Fish Screen

Nominal Size : #4 - 1 1/2" (ASTM)

Coarse Aggregate Gradations

Date	Percent Passing Screen Sizes in Inches or Sieve Size Shown					% -200	Moist %	Spec Grav	Absorp
	2"	1 1/2"	3/4"	3/8"	#4				
Spec Max %	100.0	100.0	70.0	30.0	5.0				
Spec Min %	100.0	95.0	35.0	10.0	0.0				
06/06/2012	100.0	95.7	57.7	23.9	4.0	0.40	1.00	2.58	2.10
Average	100.0	95.7	57.7	23.9	4.0	0.40	1.00	2.58	2.10
S.D.	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
C.O.V.	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00

PROJECT: Central Valley

SPECIFICATION REQUIREMENTS:

PERIOD OF REPORT: 06/01/2012 - 06/30/2012

FEATURE: Red Bluff Pumping Plant and Fish Screen

Min percent compaction (D-Value): 98.00 %
Min average D-Value for ALL tests: 98.00 %
Max DRY Wo-Wf: 2.00
Max WET Wo-Wf: -2.00

SPECIFICATION NO: 20-C0740

Max WET Wo-Wf: -2.00

FILL NAME: 1 - Road Embankment

TEST NUMBER				LOCATION			FIELD DENSITY TESTS										LABORATORY VALUES				COMPACTION CONTROL VALUES				VISUAL SOIL CLASS	OTHER TESTS	REMARKS			
M	N	S	B	STATION	OFF SET	ELEV	METH	ASTM	WET DEN	MOIS	MINUS #4						COMP TEST	MAX DRY	OPT MOIS	DEG OF SAT	Wo-Wf (%)	C (%)	D (%)	PENE NEED (PSI)						
O	H	M	T								OF TEST	TOT	TOT	PLUS	SPEC GRAV													DRY	MOIS	OF
N	D	I	B								Y T R E S	COMP	METH	MAT	MAT	#3/4												+3/4	-3/4	PCF
T	A	F	E	W			(PCF)	(%)	(%)	(%)	(%)	(%)	(%)	(%)																
06-01-A-01-R-A*				1	49+50	A-3	0	SR	7205	133.3	4.0	15.4	2.70	2.60	122.8	4.6	37	R	122.6	123.9	9.8	82	5.2	104.8	99.1	NA		N		
06-05-A-01-R-A*				1	40+50	A-3	0	SR	7205	137.4	5.2	10.0	2.64	2.60	127.8	5.7	55	R	123.3	123.6	9.0	75	3.3	109.6	103.4	NA		N		
06-05-A-02-R-R				1	00+00	CL	0	SR	7205	138.7	3.6	34.0	2.63	2.60	122.5	5.1	41	R	124.5	127.4	11.4	108	6.3	103.4	96.2	NA		N		
06-11-A-02-R-A*				1	00+00	CL	0	SR	7205	140.7	7.5	12.9	2.64	2.60	127.2	8.5	80	R	126.0	119.6	12.3	90	3.8	109.5	106.4	NA		N		
ACCEPTED TESTS THIS PERIOD: 3									AVG.	137.1	5.6	12.8	2.66	2.60	125.9	6.3	57		124.0	122.4	10.4	82	4.1	108.0	103.0					
									S.D.	3.7	1.8	2.7	0.03	0.00	2.7	2.0	22		1.8	2.4	1.7	7	1.0	2.7	3.7					
									C.O.V.	2.7	32.0	21.2	1.30	0.00	2.2	32.1	38		1.4	2.0	16.6	9	24.0	2.5	3.6					

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U.S. Bureau of Reclamation
 STATISTICAL SUMMARY OF FIELD AND LABORATORY TESTS OF COMPACTED FILL
 CONTROLLED BY THE LABORATORY COMPACTION METHOD

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PROJECT: Central Valley

SPECIFICATION REQUIREMENTS:

PERIOD OF REPORT: 06/01/2012 - 06/30/2012

FEATURE: Red Bluff Pumping Plant and Fish Screen

Min percent compaction (D-Value): 98.00 %

Min average D-Value for ALL tests: 98.00 %

Max DRY Wo-Wf: 2.00

Max WET Wo-Wf: -2.00

SPECIFICATION NO: 20-C0740

FILL NAME: 1 - Road Embankment

	This Period	To Date
No. of Tests Taken	4	130
No. of Tests Accepted	3	92
No. of Tests Rejected	1	38
No. of Rejected Tests not Re-Checked	1	37
Average Water Content Total Material	5.6	9.6
Average Control Fraction Water Content	6.3	10.6
Average Optimum Water Content	10.4	12.2
Average Wo-Wf	4.1	1.6
Percent of Accepted Tests Dryer Than 2.00	100.0	48.9
Percent of Accepted Tests Wetter Than -2.00	0.0	9.8
Average Wet Density Total Material (PCF)	137.1	137.6
Average Control Fraction Dry Density (PCF)	125.9	120.4
Average Proctor Max Dry Density (PCF)	122.4	120.4
Average Compaction Cylinder Wet Density (PCF)	124.0	128.6
Average Percent +3/4 Material (%)	12.8	14.9
Average C-Value (%)	108.0	102.0
Average D-Value (%)	103.0	98.9
Percent Accepted with D-Value < 98.0	0.0	25.0
Tests Accepted Outside of Specification Limits	3	62
Minimum D-Value of 98.0 %	0	23
Max DRY Wo-Wf of 2.00	3	45
Max WET Wo-Wf of -2.00	0	9

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Concrete Construction Data

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Concrete Class: Fish Screen Slab
Report of Mixes Used From 06/01/2012 to 06/30/2012

Mix Design Number: F740QFPX7-2
 Specification Number: 20-C0752
 Project: Central Valley
 Feature: Red Bluff Pumping Plant and Fish Screen

Date Time	y^3 of Conc	Percent Of Coarse Aggregate in each size				Yield Quantities per Cubic Yard										T E Cem M Eff P	Fresh Concrete Tests					Compressive Strength Of Individual Specimens (psi)						
		Sand	CA1	CA2	CA3	CA4	Pounds					Oz					Slump (ins)	UW (pcf)	W/ C+P	Air		3 Day	7 Day	28 Day	90 Day	180 Day	1 Year	
							Water	Cem	Poz	Sand	C.A.	AD#3	AEA	WRA	AD#4					AD#5	Grav Meth							Press Meter
06/01/2012																												
09:00	8.00	52.6	100.0	0.0	0.0	0.0	245	603	104	1508	1347	0	6.2	21.3	28.4	0.0	6.7	76	4.50	141.0	0.35	5.5	4.8		2890	4010		
																								2930	4010			
06/06/2012																												
12:02	7.00	56.1	100.0	0.0	0.0	0.0	251	594	107	1593	1237	0	6.2	20.7	27.6	0.0	78	3.50	140.1	0.36	5.8	5.7		2600	#####	#####		
																								2800	#####	#####		
06/07/2012																												
11:00	6.00	56.1	100.0	0.0	0.0	0.0	241	607	113	1633	1269	0	5.7	21.9	28.8	0.0	79	2.50	143.1	0.33	4.3	3.8		3700	#####	#####		
																								3540	#####	#####		
06/13/2012																												
06:04	8.00	56.0	100.0	0.0	0.0	0.0	229	619	108	1638	1276	0	5.7	21.8	28.0	0.0	70	3.50	143.3	0.31	4.8	3.8		3310	#####	#####		
																								3170	#####	#####		
06/14/2012																												
06:10	4.50	56.3	100.0	0.0	0.0	0.0	233	619	105	1632	1258	0	5.5	21.1	27.6	0.0	70	3.50	142.5	0.32	5.2	4.0		3480	#####	#####		
																								3060	#####	#####		
Design		44.0	100.0	0.0	0.0	0.0	237	592	105	1254	1624	0	4.5	27.8	20.9	0.0			3.00	141.2	0.34	5.0	5.0			4000		
AVG.		55.4	100.0	0.0	0.0	0.0	240	608	107	1601	1277	0	5.8	21.3	28.1	0.0	6.7	75	3.50	142.0	0.34	5.1	4.4		3148	4010		
S.D.		1.6	0.0	0.0	0.0	0.0	9	11	4	55	42	0	0.3	0.5	0.5	0.0	0.0	4	0.71	1.4	0.02	0.6	0.8		356	0		
C.O.V		2.8	0.0	0.0	0.0	0.0	3.7	1.8	3.3	3.4	3.3	0.0	5.6	2.4	1.8	0.0	0.0	5.8	20.2	1.0	5.2	11.6	18.7		11.3	0.0		

Bureau.....: Required average strength = 4605 psi at 28 days. Based on 90% exceeding the design strength of 4000 psi & C.O.V. (n=245) = 10.3

ACI.....: Required average strength = 4813 psi at 28 days (n=245)

CURE METHOD...: Water Tank with an Average Cure Temperature of 70 - 76 (F)

= Specimen not broken as of report date.